

Express Mail Label No. EV 308897600 US  
Date of Deposit: February 13, 2004

ATTORNEY'S DOCKET NO: R0434/7008

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Tatsing P. Chow  
Serial No: 09/944,522  
Filed: August 31, 2001  
For: THYRISTOR HAVING ONE OR MORE DOPED LAYERS

Examiner: Viktor Simkovic  
Conf. No.: 3321

**Mail Stop Petition**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**PETITION TO REVIVE UNINTENTIONALLY ABANDONED  
PATENT APPLICATION UNDER 37 C.F.R. §1.137(b)**

Sirs:

It is respectfully requested that the above-identified patent application be revived under the provisions of 37 C.F.R. §1.137(b).

1. This application became abandoned for failure to file a complete timely and proper response to the Notice of Allowance and Issue Fee Due mailed November 6, 2003.
2. The entire delay from the due date of February 6, 2004 until the filing of the present Petition in providing the issue fee and formal drawings in response to the Notice of Allowance and Issue Fee Due was unintentional.
3. The required reply to the above-noted Notice of Allowance are the enclosed four pages of formal drawings, FIGS 1-5.
4. The petition fee as set forth in 37 C.F.R. §1.17(m) in the amount \$1330.00 is enclosed herewith, along with the payment of the issue fee in the amount of \$1330.00.

Should there be any questions or if this petition does not place this application in condition to issue, Applicant urges the Office of Petitions to call Applicant's Representative, Edward J. Russavage, at telephone no. (617) 395-7021. In addition, please forward all correspondence to Applicant's representative:

Edward J. Russavage  
Lowrie, Lando & Anastasi, LLP  
Riverfront Office Park  
One Main Street, Suite 11  
Cambridge, MA 02142

Please credit any overpayment or charge any deficiency in the enclosed fee to the account of the undersigned, Deposit Account No. 50/2762.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Edward J. Russavage", is written over a horizontal line.

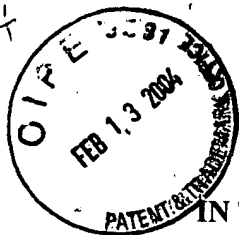
Edward J. Russavage, Reg. No. 43,069  
Lowrie, Lando & Anastasi, LLP  
Riverfront Office Park  
One Main Street, Suite 11  
Cambridge, MA 02142  
(619) 395-7000

Attorney's Docket No. R0434/7008  
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94

02-17-04

Image # D/Ac



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Sir:

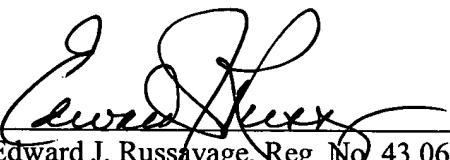
Transmitted herewith are the following documents:

- ☒ [X] Part B – Fee(s) Transmittal
- ☒ [X] Petition to Revive Unintentionally Abandoned Patent Application Under C.F.R. §1.137(b)
- ☒ [X] Request for Approval and Entry of Formal Drawings, along with four (4) sheets of Formal Drawings for Figures 1-5
- ☒ [X] Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 395-7000.

A check for \$2660.00 is enclosed. If the fee required differs from the amount enclosed, the Commissioner is hereby authorized to charge any underpayment to or refund any overpayment to Deposit Account No. 50/2762.

Respectfully submitted,  
Tatsing P. Chow, Applicant

By:   
Edward J. Russavage, Reg. No. 43,069  
LOWRIE, LANDO & ANASTASI, LLP  
Riverfront Office Park  
One Main Street  
Cambridge, MA 02142  
(617) 395-7000

Date: February 13, 2004

## PART B - FEE(S) TRANSMITTAL

• Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISS **FEE**  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

11/06/2003

EDWARD J. RUSSAVAGE  
 C/O LOWIE LOWIE, LANDO & ANASTASI, LLP  
 RIVERFRONT OFFICE PARK,,  
 ONE MAIN STREET  
 CAMBRIDGE,, MA 02142

Express mail # 2V32876100US  
 Date of deposit: 02/13/2004

Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/944,522	08/31/2001	Tatsing P. Chow	R00434/70008 (EJR)	3321

TITLE OF INVENTION: THYRISTOR HAVING ONE OR MORE DOPED LAYERS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	02/06/2004

EXAMINER	ART UNIT	CLASS-SUBCLASS
SIMKOVIC, VIKTOR	2812	257-170000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Lowrie, Lando &  
 2 Anastasi, LLP  
 3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Rensselaer Polytechnic Institute

Troy, New York

Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual ☒ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

- ☒ Issue Fee  
☐ Publication Fee  
☐ Advance Order - # of Copies

4b. Payment of Fee(s):

- ☒ A check in the amount of the fee(s) is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☒ The Director is hereby authorized to charge the required fee(s), or credit any overpayment Deposit Account Number 5072762 (enclose an extra copy of this form).

Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date)

Edward J. Russavage, 43,069

2/13/2004

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

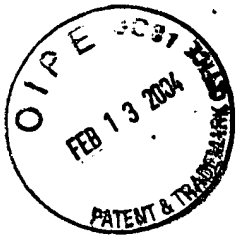
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

02/18/2004 AWONDAF2 00000004 09944522

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Examiner: Viktor Simkovic

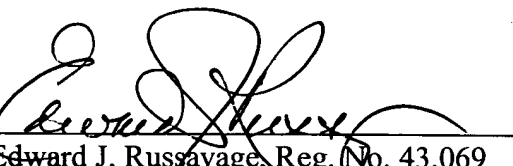
Mail Stop Petition  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**REQUEST FOR APPROVAL AND ENTRY OF FORMAL DRAWINGS**

Sir:

Enclosed for filing are four (4) sheets of FORMAL DRAWINGS, Figures 1-5 , for the above-referenced patent application.

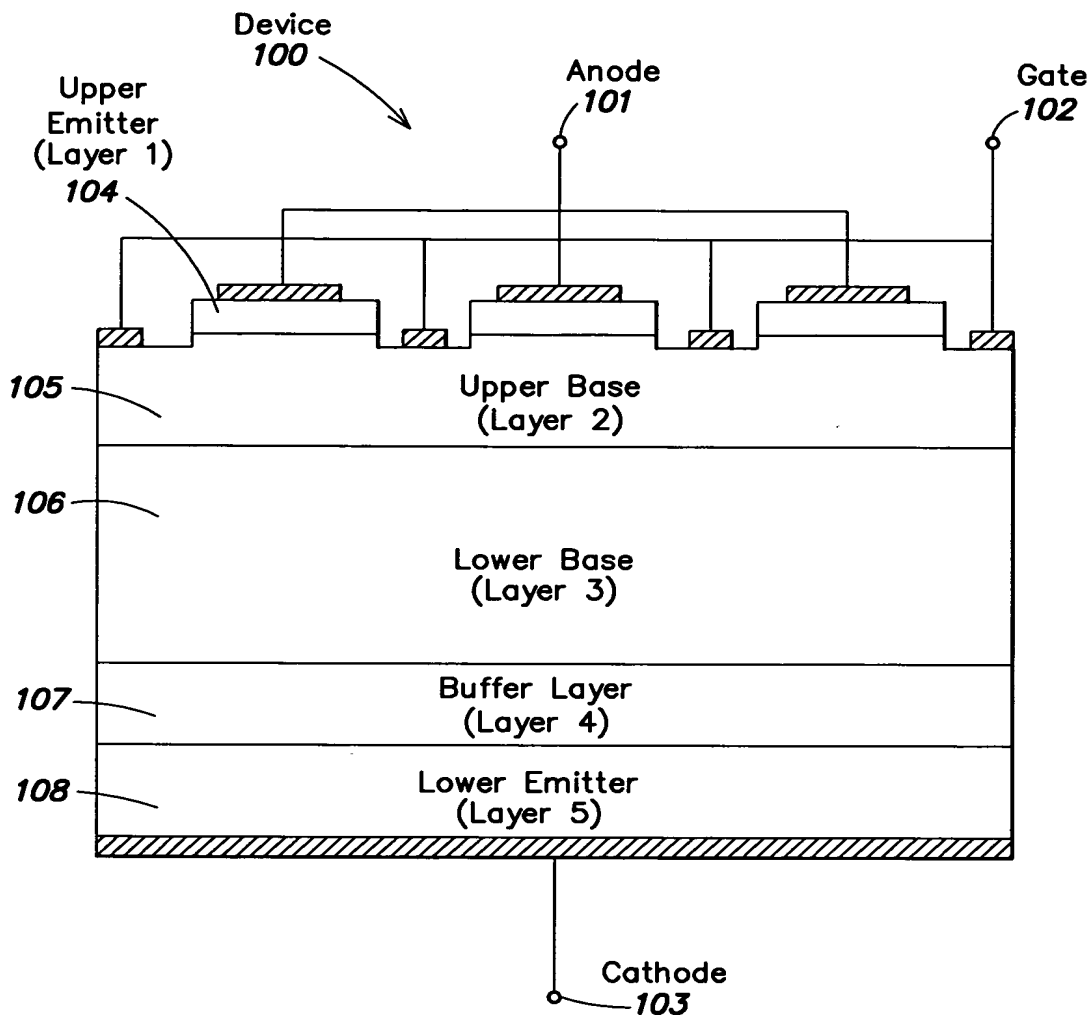
Respectfully submitted,  
*Tatsing P. Chow, Applicant*

By:   
Edward J. Russavage, Reg. No. 43,069  
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Riverfront Office Park  
One Main Street  
Cambridge, MA 02142  
(617) 395-7000

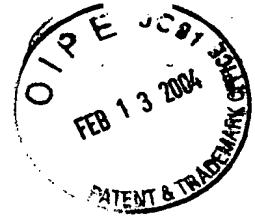
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Thyristor Having One Or More  
Doped Layers  
by: Tatsing P. Chow  
Attorney Docket: R0434-7008

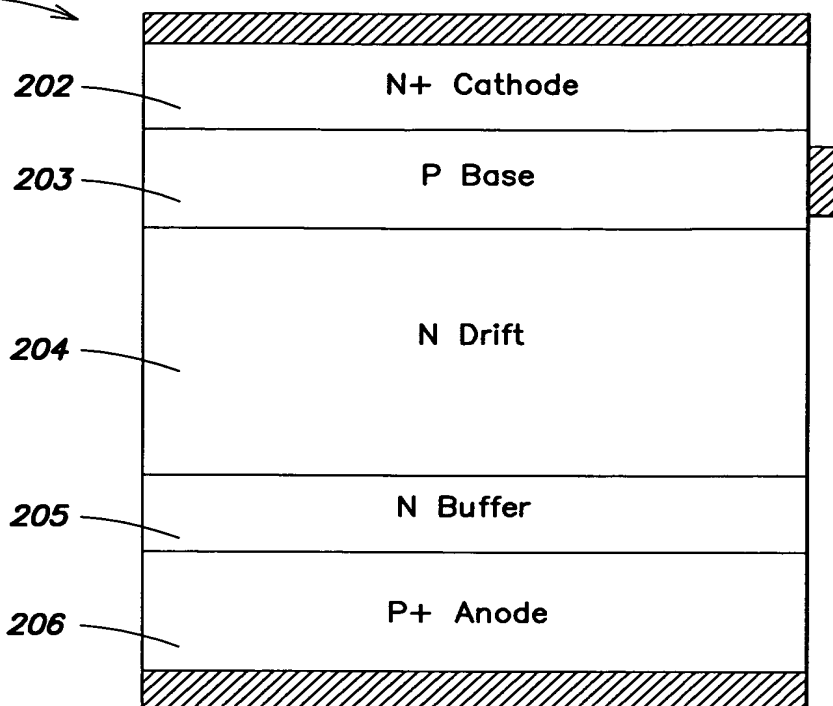


**FIG. 1**



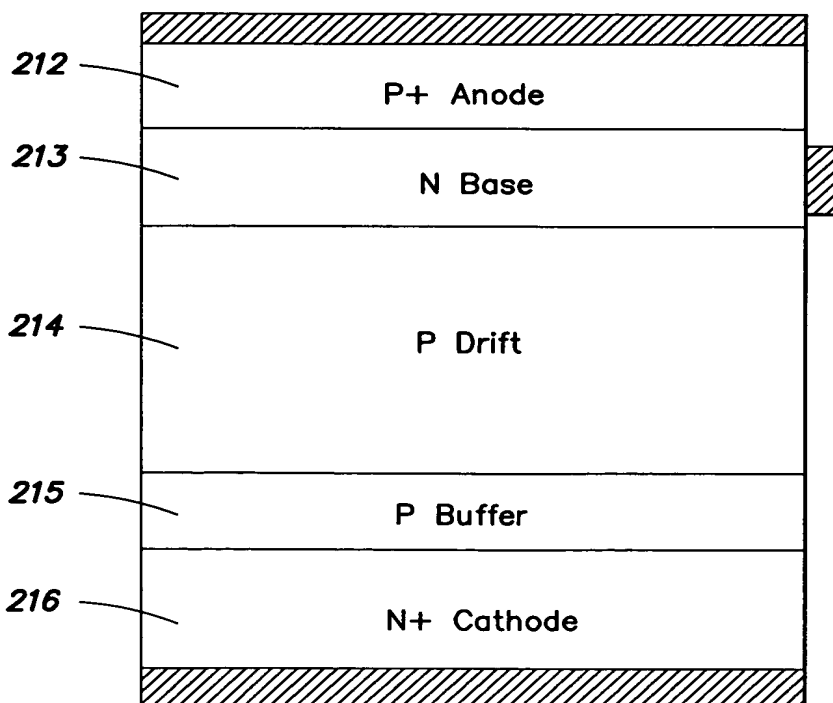
Thyristor Having One Or More  
Doped Layers  
by: Tatsing P. Chow  
Attorney Docket: R0434-7008

Device  
200



**FIG. 2A**

Device  
210



**FIG. 2B**

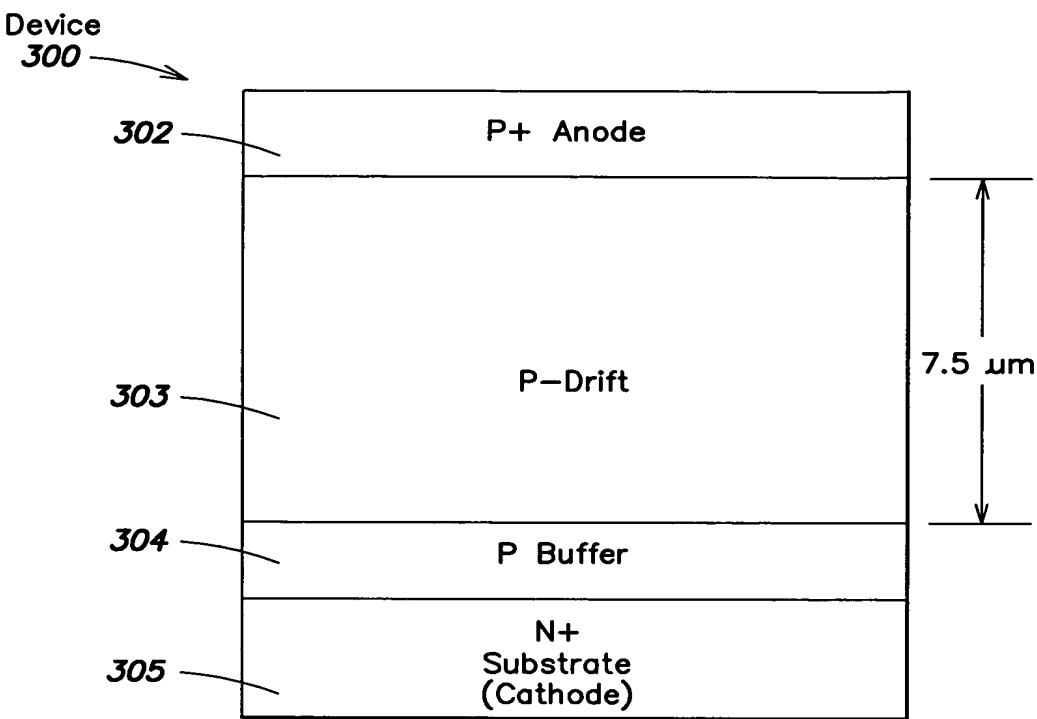
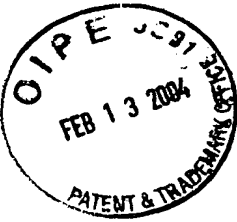


FIG. 3A

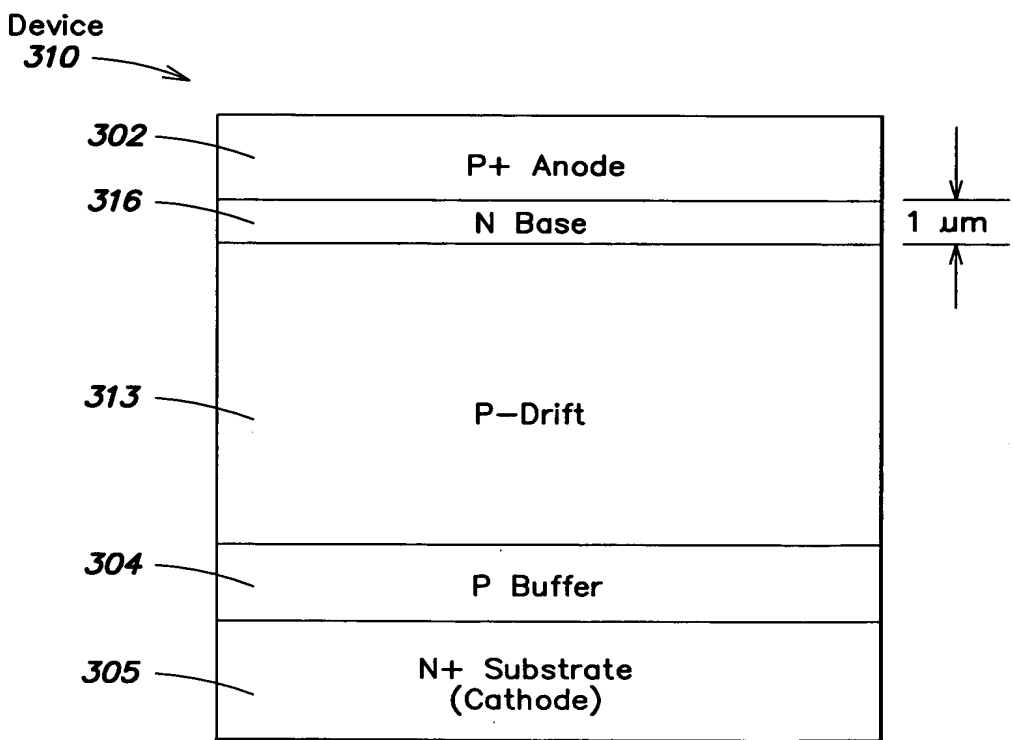
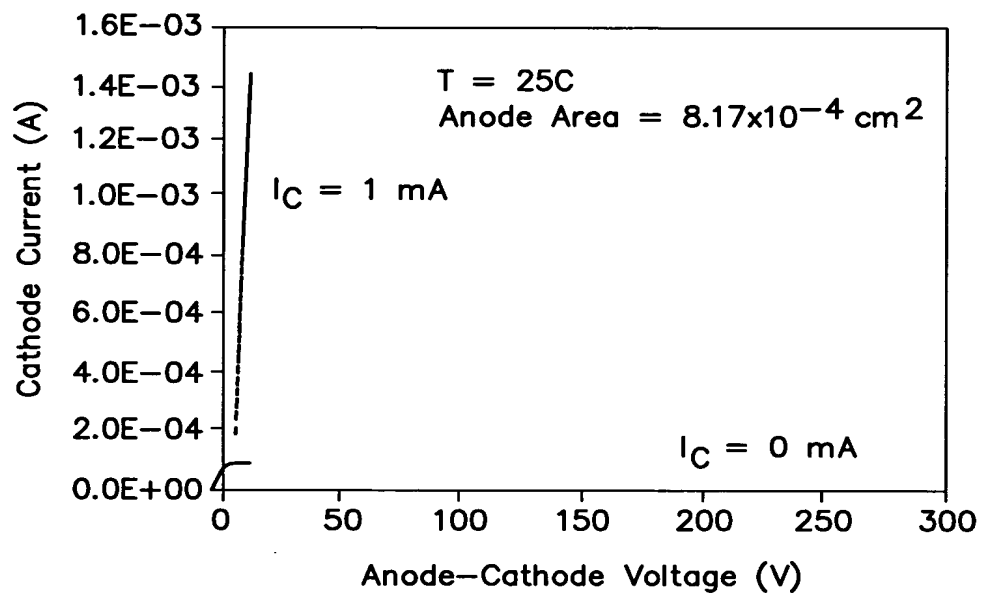
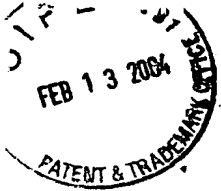
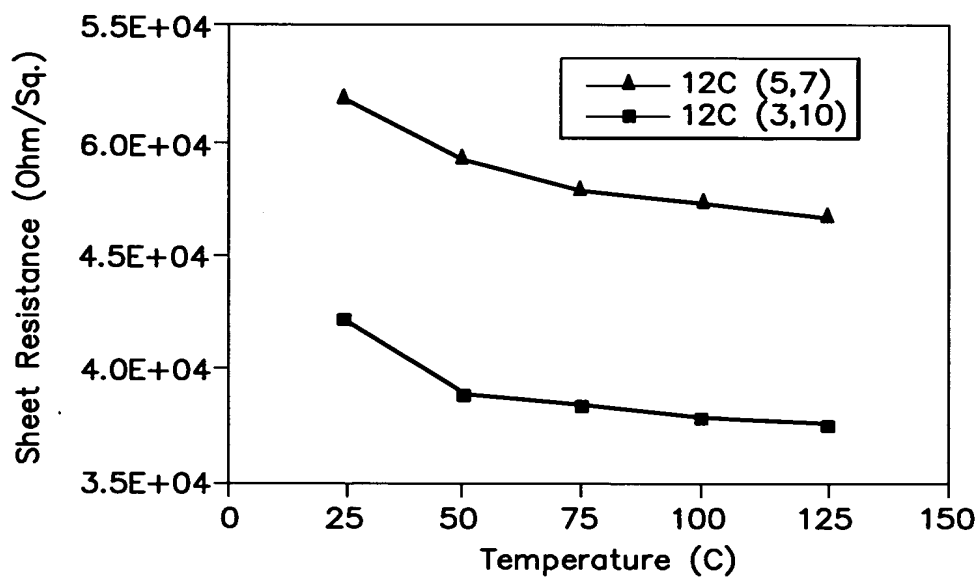


FIG. 3B





**FIG. 4**



**FIG. 5**